June 9, 2017

Via Certified Mail

Mr. Andrew Park
Hazardous Waste Programs Branch
US Environmental Protection Agency Region 2
290 Broadway, 22nd Floor
New York, New York 10007-1866

Re: Response to 5/3/2017 Comments - USEPA
AOC 10: Truck Loading Rack Remedial Investigation Workplan
Hess Corporation Former Port Reading Complex (HC-PR)
750 Cliff Road
Woodbridge, Middlesex County, New Jersey
NJDEP PI# 006148
ISRA Case No. E20130449
EPA ID No. NJD045445483

Dear Mr. Park:

Earth Systems, Inc. (Earth Systems) has prepared this letter on behalf of Hess Corporation (Hess) in response to the May 3, 2017 correspondence from the United States Environmental Protection Agency (USEPA) regarding the above referenced revised workplan. In addition to the May 3, 2017 comments, the USEPA also issued comments in August 2016 and the New Jersey Department of Environmental Protection (NJDEP) issued comments in September 2016. Hess addressed the comments from both the USEPA and NJDEP in November 2016. Subsequently, the USEPA requested a revised RIW in February 2017 (submitted in March 2017).

Section 3.1 Groundwater Investigation

EPA Comment # 1*: Figure 3b - The groundwater contour does not accurately reflect the groundwater level (12.370) detected at TR-4D. The contour must be revised to reflect the*

actual groundwater levels detected at the well and any other wells nearby. If necessary, additional wells need to be installed.

Figure 3c - The contour is based on the groundwater levels detected only from the two wells: TR-4DD (5.470); and PER-9DD (3.280). It is inadequate to reflect the groundwater contour for the deep zone. In order to accurately reflect the groundwater contour for the deep zone, groundwater levels from additional monitoring wells screened for the deep zone need to be obtained. The groundwater contour may have to revised to reflect the actual groundwater levels detected for all the well screened for the deep zone.

Earth Systems Response: The top of the casing elevation was mistakenly noted on the contour map. A revised contour map has been included with this letter with the correct groundwater elevation for TR-4D [4.8 feet below land surface (ft bls)]. Please note that this well is frequently inaccessible as it is often completely submerged due to localized flooding in the area.

Deep groundwater flow direction is currently based on water elevations collected from wells TR-4DD (5.47 ft bls), PER-9DD (3.28 ft bls), and AD-2DD (5.54 ft bls). Additional deep groundwater wells are proposed to be installed as part of vertical delineation of groundwater impacts in the truck loading rack. In the future, the new wells will also be utilized to evaluate groundwater flow direction.

Section 4.1 Soil Investigation

EPA Comment # 2*: If the results from the most outer or deepest soil samples as proposed show higher than the respective soil standards, additional soil samples further out or deep must be collected to complete the delineation of contaminated soils. Please confirm.*

Please justify why no SVOCs need to be analyzed for soil samples.

Earth Systems Response: As specified in the RIW, "If additional delineation is necessary, supplemental soil borings will be installed as appropriate."

Based on an evaluation of the 2016 groundwater analytical results, SVOCs (excluding 1,4-Dioxane) were only detected in excess of the Groundwater Quality Standards (GWQS) in groundwater samples collected from monitoring wells TR-2R, TR-4R, TR-4D, and TR-4DD. SVOCs were not detected in excess of the GWQS in the groundwater samples collected from the remaining 16 monitoring wells.

Section 4.2 Monitoring Well Installation

EPA Comment # 3*: Please provide isopleth maps showing the extent of shallow groundwater impacts for each of the contaminants detected above the respective standards. After a review of the maps, EPA/NJDEP will assess as to whether Hess' conclusion is adequate.*

Section 3.1.4 shows the elevated levels of SVOCs (particularly naphthalene and methylnaphthalene among others) detected at TR-TW-2; TR-TW-4; TR-TW-5; TR-TW-6; and TR-TW-7.

The November 2015 and November 2016 groundwater data provide no information concerning SVOCs in the areas. Therefore, groundwater samples need to be collected to confirm elevated levels of SVOCs in the areas and if elevated, further sampling must be performed to delineate the extent. Please respond.

If the results collected for the most outer and deep groundwater samples show higher than the respective standards, additional groundwater samples further out and deep must be collected to completely delineate the extent. At the conclusion of the sampling, isopleth maps delineating the extent of each of the contaminants detected above their respective standards covering the areas for the Truck Loading Rack, Detention Basin/Smith Creek and Aeration Basins must be provided to EPA/NJDEP for review and concurrence. Please confirm.

The proposed additional monitoring wells are inadequate to delineate the extent of metals since elevated metals were detected in the area of the Detention Basin/Smith Creek and the Aeration Basin. Therefore, additional wells need to be installed to delineate horizontal and vertical extent of metal contamination in the areas. Please respond.

Earth Systems Response: Isopleth maps will be prepared for shallow groundwater following implementation of the proposed groundwater investigation activities.

Temporary well points were installed in 2009. Based on the temporary well analytical results, additional monitoring wells were installed. SVOC concentrations may have been biased high in the temporary well points due to turbidity. All permitted monitoring wells have been sampled for SVOCs annually, in addition to metals and VOCs sampling. SVOC concentrations have been detected at significantly lower concentrations in the permanent monitoring wells compared to groundwater data from the temporary well points.

The groundwater data tables that were included with the report contained SVOC results for 2015 and 2016. In addition, the SVOC results were also summarized in the text of the report. The groundwater data tables that were included in the RIW have been attached to this letter as well.

If groundwater samples collected from the most outer and deep monitoring wells have results which exceed the GWQS, additional delineation will be conducted. As mentioned above, following implementation of the proposed groundwater investigation activities, updated isopleth maps will be prepared and provided to the NJDEP and EPA.

As outlined in the RIW, the GWQS for aluminum, iron, manganese, and sodium are not health based standards and are therefore based on secondary characteristics. Exceedances of beryllium, cadmium, and arsenic are likely due to background levels common to NJ or due to the presence of historic fill. Therefore, these metals are not considered contaminants of concern. Lead is the only metal which exceeded the GWQS and requires delineation. Among the truck loading rack wells, lead was detected in

excess of the GWQS of 5 parts per billion (ppb) only in groundwater samples collected from wells TR-4DD (5.2 ppb) and TR-5 (7.6 ppb). Based on the low concentrations detected in only two of the truck loading rack wells (and lead was either not detected or detected at concentrations less than the GWQS in the remaining truck loading rack wells), lead levels are considered delineated at the truck loading rack. Lead concentrations detected in wells PER-1, PER-2, AB-1, and AB-3 will be addressed as part of groundwater investigation activities conducted to address AOC 5: Aeration Basin and AOC 12: Smith Creek & Detention Basin.

Should you have any questions or require additional clarification or information, please contact me at 732-739-6444 or via e-mail at ablake@earthsys.net. If you have any questions relating to the project and schedule moving forward, you can also contact Mr. John Schenkewitz of Hess Corporation at 609-406-3969.

Sincerely,

Earth Systems, Inc.

Amy Blake
Sr. Project Manager

c. Mr. Phil Cole, NJDEP Case Manager (via 3 hard copies)
Mr. John Schenkewitz – Hess Corporation (via e-mail)
Mr. Rick Ofsanko – Earth Systems (via e-mail)
Mr. John Virgie – Earth Systems (via e-mail)

INTERMEDIATE GROUNDWATER CONTOUR MAP
NOVEMBER 14, 2016

HESS CORPORATION

FORMER PORT READING COMPLEX (HC-PR)
750 CLIFF ROAD
PORT READING, NEW JERSEY

Earth Systems

Figure 3b

LEGEND

PL-5 MONITORING WELL LOCATION

GROUND WATER ELEVATION CONTOUR (FEET) DASHED WHERE INFERRED

INTERPRETED GROUND WATER FLOW DIRECTION

FILE: I:\CLIENTS\E\EARTHSYSTEMS\HESS\PINNACLE\GWCONS_11_14_16_INTERMEDIATE.DWG, DATE: 12/21/2016 10:56:08AM

TABLES

Table 1
Hess Corporation - Former Port Reading Complex
750 Cliff Road
Port Reading, New Jersey
Historic Temporary Well Sampling

Sample ID:	NJ Groundwater Criteria (NJAC 7:9C 7/07)	TR-TW-1	TR-TW-2	TR-TW-3	TR-TW-4	TR-TW-5	TR-TW-6	TR-TW-7	TR-TW-8	TR-TW-9	TR-TW-10	TR-TW-11	TR-TW-12	TR-TW-13	TR-TW-15	TR-TW-16	TR-TW-17
Sample Date		**10/13/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/14/2009**	**10/21/2009**	**10/21/2009**	**10/22/2009**	**10/22/2009**	**10/22/2009**	**10/22/2009**
Semi-Volatile Organic Compounds (SVOCs)																	
Benzo(a)anthracene	0.1	**6.2**	**13.9**	ND	**7.14**	ND	ND	ND	**24.5**	**10.6**	**5.49**	ND	ND	**1.7**	ND	**0.436**	ND
Benzo(a)pyrene	0.1	**4.03**	**5.55**	ND	ND	ND	ND	ND	**34.6**	**3.04**	**1.49**	ND	ND	**0.76**	ND	**0.336**	ND
Benzo(b)fluoranthene	0.2	**9.4**	**9.22**	ND	ND	ND	ND	ND	**48.4**	**4.62**	**1.95**	ND	ND	**1.44**	ND	**0.555**	ND
Benzo(k)fluoranthene	0.5	**4**	**4.54**	ND	ND	ND	ND	ND	**22.3**	**2.09**	**0.922 J**	ND	ND	0.287	ND	0.285	ND
Bis(2-Ethylhexyl) phthalate	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	4.22	**8.65**	ND	**5.35**	ND	ND	ND	**18.9**	**6.11**	2.54	ND	ND	1.41	ND	0.463	ND
Dibenzo(a,h)anthracene	0.3	**0.555**	**3.11**	ND	ND	ND	ND	ND	**11.8**	ND	ND	ND	ND	0.23	ND	ND	ND
1,4 Dioxane	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2	**2.7**	**6.74**	ND	ND	ND	ND	ND	**21.7**	**3.42**	ND	ND	ND	**0.445**	ND	**1.28**	ND
Naphthalene	300	15.3	134	175	15.7	**341**	**437**	**357**	**23,500**	**1,550**	**1,350**	ND	ND	**728**	3.51	0.946	2.04
Phenanthrene	100	10.7	91.5	ND	36.8	ND	4.62	5.24	**2,270**	82.9	33	ND	ND	51.5	ND	0.271	0.126
Pyrene	200	12.2	68.1	ND	11.6	ND	2.48	1.67	**293**	21.5	8.34	ND	ND	5.9	0.185	0.493	ND
bis(2-Ethylhexyl)phthalate	3	**7.5**	**1,080**	ND	**15.4**	ND	ND	ND	ND	ND	**20.2**	ND	ND	**10.6**	ND	**5.4**	ND
2-Methylnaphthalene	30	19.1	**685**	**225**	**75.3**	**111**	**281**	**242**	**33,600**	**1,950**	**1,360**	ND	ND	**632**	3.7	ND	1.4 J
Total Semi-Volatile (TIC)	500	286 J	**5,660 J**	**5,473 J**	**7,520**	**6,580 J**	**7,490 J**	**3,339 J**	**106,000 J**	**20,520 J**	**16,120 J**	ND	ND	**7,570 J**	241.1 J	11.1 J	21.8 J
Volatile Organic Compounds (SVOCs)																	
Benzene	1	ND	**13.9**	**76.4**	**6.7**	**15,800**	**21,900**	**1,420**	**16,700**	**3,320**	**9,810**	ND	ND	**7,930**	**4.3**	**1.5**	**9.1**
cis-1,2-Dichloroethene	70	0.3 J	ND	ND	ND	ND	ND	ND	ND	**2,300**	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	30	23.2	84.1	1.2	**5,120**	**2,080**	**933**	**93,400**	**1,640**	**2,970**	ND	ND	**1,950**	109	2.5	8.6
Methyl Tert Butyl Ether	70	14.4	16.7	**94.2**	**74.8**	**455,000**	**1,080,000**	**1,360**	**365,000**	**335**	**252,000**	ND	ND	**175,000**	3	6.7	49.4
Tert Butyl Alcohol	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	ND	2.3 J	33.9	1	ND	**22,500**	26.5	**123,000**	**6,320**	**6,550**	ND	ND	**9,960**	1.3	7.8	27.6
Vinyl chloride	1	ND	ND	ND	ND	ND	ND	ND	ND	**171**	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	1,000	1.2	14.3	793	0.98 J	**4,870**	**10,300**	65	**533,000**	**7,530**	**11,600**	ND	ND	**7,370**	186	7.2	25.9
Total Volatile (TIC)	500	**732 J**	**2,040 J**	**1,914 J**	275 J	**21,100 J**	ND	**4,630 J**	**449,000 J**	**16,140 J**	**17,730 J**	ND	ND	**50,000 J**	175.3 J	ND	48.2 J

Sample ID:	NJ Groundwater Criteria (NJAC 7:9C 7/07)	DC-TW-1	DC-TW-2	DC-TW-3	HS8-TW-1	HS8-TW-2	HS8-TW-3	HS8-TW-4	HS8-TW-5	HS8-TW-6	HS8-TW-7
Sample Date		**6/20/2012**	**6/20/2012**	**6/20/2012**	**9/22/2010**	**9/22/2010**	**9/22/2010**	**9/22/2010**	**9/22/2010**	**9/22/2010**	**9/22/2010**
Semi-Volatile Organic Compounds (SVOCs)											
Benzo(a)anthracene	0.1	**0.205**	**1.99**	**2.01**	ND	**0.35**	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.1	ND	**0.900**	**1.34**	ND	**0.111**	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.2	ND	**0.895**	**1.69**	ND	0.125	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.5	ND	**0.550**	**1.28**	ND	0.0704	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) phthalate	2	ND	**3.54**	**2.47**	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	ND	1.26 J	2.64	ND	0.389	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.3	ND	ND	ND*	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane	10	**11.6**	**49.7**	2.15	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2	ND	**0.325**	**0.976 J**	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	26.5	281	6.33	ND	14.7	ND	ND	ND	ND	ND
Phenanthrene	100	16.1	39.9	18.5	0.113	62.3	0.68	ND	0.16	ND	ND
Pyrene	200	1.20	6.20	7.53	0.121	2.13	0.634	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	3	ND	3.54	2.47	2.5	**3.2**	**7.7**	ND	ND	ND	ND
2-Methylnaphthalene	30	**50.6**	**132**	2.39	ND	**829**	ND	ND	ND	ND	ND
Total Semi-Volatile (TIC)	500	434 J	**2400 J**	169 J	21.3	490	**884.6**	ND	6.7	ND	ND
Volatile Organic Compounds (SVOCs)											
Benzene	1	**59.4**	**4,490**	ND	0.41	**490**	ND	ND	ND	ND	ND
1,1-Dichloroethene		**8.27**	ND*	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	44.3	**880**	ND	ND	3	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	70	24.7	**4,130**	15.4	1.9	28.4	ND	0.76	2.1	ND	41.1
Tert Butyl Alcohol	100	NA	NA	NA	60.6	**1,190**	ND	ND	ND	ND	ND
Toluene	600	13.3	300	ND	188	6.4	21.4	0.37	8.8	12.3	3.1
Vinyl chloride	1	**9.06**	ND*	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	1,000	114	**2,020**	ND	ND	1.4	ND	ND	ND	ND	ND
Total Volatile (TIC)	500	**708 J**	**4,230 J**	ND	ND	**5,630**	**604**	ND	ND	ND	ND

Table 2
AOC 10: Truck Loading Rack
Hess Corporation - Former Port Reading Complex
750 Cliff Road
Port Reading, New Jersey
2015 Groundwater Analytical Results

Client Sample ID:		NJ Groundwater Criteria (NJAC 7:9C 7/07)	NJ Interim Groundwater Criteria (NJAC 7:9C 11/15)2	TR-1R	TR-2R	TR-3RR	TR-4R	TR-4D	TR-4DD	TR-5R	TR-6	TR-6D	AB-4D	PER-2	PER-2D	PER-3	PER-3D	PER-9	PER-9D	PER-9DD	PER-10	PER-10D
Lab Sample ID:				JC8967-1	JC8967-4	JC8967-6	JC8967-8	JC8967-9	JC8967-10	JC8967-7	JC8967-2	JC8967-3	JC9218-4	JC9071-8	JC9071-9	JC9218-5	JC9218-6	JC9218-1	JC9218-2	JC9218-3	JC9218-7	JC9218-8
Date Sampled:				11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/23/2015	11/20/2015	11/20/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015
Matrix:				Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
GC/MS Volatiles (SW846																						
Acetone	ug/l	6000	-	ND (3.3)	ND (3.3)	ND (17)	ND (3.3)	ND (33)	ND (3.3)	ND (33)	ND (3.3)	ND (3.3)	ND (3.3)	8.2 J	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)
Benzene	ug/l	1	-	ND (0.24)	**912**	**3.8**	**52.5**	**6.1**	ND (0.24)	**1200**	**426**	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	**2**
Bromochloromethane	ug/l	-	-	ND (0.37)	ND (0.37)	ND (1.9)	ND (0.37)	ND (3.7)	ND (0.37)	ND (3.7)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
Bromodichloromethane	ug/l	1	-	ND (0.23)	ND (0.23)	ND (1.1)	ND (0.23)	ND (2.3)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	**1.5**	ND (0.23)	ND (0.23)
Bromoform	ug/l	4	-	ND (0.23)	ND (0.23)	ND (1.2)	ND (0.23)	ND (2.3)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Bromomethane	ug/l	10	-	ND (0.42)	ND (0.42)	ND (2.1)	ND (0.42)	ND (4.2)	ND (0.42)	ND (4.2)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
2-Butanone (MEK)	ug/l	300	-	ND (5.6)	11.6	ND (28)	ND (5.6)	ND (56)	ND (5.6)	ND (56)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)	ND (5.6)
Carbon disulfide	ug/l	700	-	ND (0.25)	ND (0.25)	ND (1.3)	ND (0.25)	ND (2.5)	ND (0.25)	ND (2.5)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.38 J	0.89 J
Carbon tetrachloride	ug/l	1	-	ND (0.22)	ND (0.22)	ND (1.1)	ND (0.22)	ND (2.2)	ND (0.22)	ND (2.2)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Chlorobenzene	ug/l	50	-	ND (0.19)	ND (0.19)	ND (0.93)	0.19 J	ND (1.9)	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Chloroethane	ug/l	-	5	ND (0.34)	ND (0.34)	ND (1.7)	ND (0.34)	ND (3.4)	ND (0.34)	ND (3.4)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Chloroform	ug/l	70	-	ND (0.19)	ND (0.19)	ND (0.94)	ND (0.19)	ND (1.9)	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	0.66 J	6.7	1.1	ND (0.19)
Chloromethane	ug/l	-	-	ND (0.41)	ND (0.41)	ND (2.0)	ND (0.41)	ND (4.1)	ND (0.41)	ND (4.1)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
Cyclohexane	ug/l	-	-	ND (0.28)	39.4	ND (1.4)	62	ND (2.8)	ND (0.28)	25.4 J	4.9 J	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,2-Dibromo-3-chloropropane	ug/l	0.02	-	ND (0.99)	ND (0.99)	ND (5.0)	ND (0.99)	ND (9.9)	ND (0.99)	ND (9.9)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)	ND (0.99)
Dibromochloromethane	ug/l	1	-	ND (0.15)	ND (0.15)	ND (0.77)	ND (0.15)	ND (1.5)	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	0.23 J	ND (0.15)	ND (0.15)
1,2-Dibromoethane	ug/l	0.03	-	ND (0.23)	ND (0.23)	ND (1.2)	ND (0.23)	ND (2.3)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	**0.25 J**	ND (0.23)	ND (0.23)	ND (0.23)
1,2-Dichlorobenzene	ug/l	600	-	ND (0.19)	ND (0.19)	ND (0.93)	ND (0.19)	ND (1.9)	0.21 J	ND (1.9)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
1,3-Dichlorobenzene	ug/l	600	-	ND (0.23)	ND (0.23)	ND (1.1)	ND (0.23)	ND (2.3)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,4-Dichlorobenzene	ug/l	75	-	ND (0.27)	ND (0.27)	ND (1.4)	ND (0.27)	ND (2.7)	ND (0.27)	ND (2.7)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Dichlorodifluoromethane	ug/l	1000	-	ND (0.90)	ND (0.90)	ND (4.5)	ND (0.90)	ND (9.0)	ND (0.90)	ND (9.0)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)
1,1-Dichloroethane	ug/l	50	-	0.31 J	ND (0.17)	ND (0.86)	ND (0.17)	ND (1.7)	0.77 J	ND (1.7)	ND (0.17)	ND (0.17)	0.46 J	ND (0.17)	0.35 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	0.33 J
1,2-Dichloroethane	ug/l	2	-	ND (0.18)	ND (0.18)	ND (0.90)	ND (0.18)	ND (1.8)	ND (0.18)	ND (1.8)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,1-Dichloroethene	ug/l	1	-	**2.1**	ND (0.51)	ND (2.6)	ND (0.51)	ND (5.1)	**3.1**	ND (5.1)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
cis-1,2-Dichloroethene	ug/l	70	-	ND (0.27)	ND (0.27)	ND (1.4)	ND (0.27)	ND (2.7)	5.4	ND (2.7)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	0.39 J	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
trans-1,2-Dichloroethene	ug/l	100	-	ND (0.65)	ND (0.65)	ND (3.2)	ND (0.65)	ND (6.5)	ND (0.65)	ND (6.5)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)
1,2-Dichloropropane	ug/l	1	-	ND (0.39)	ND (0.39)	ND (2.0)	ND (0.39)	ND (3.9)	ND (0.39)	ND (3.9)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
cis-1,3-Dichloropropene	ug/l	-	-	ND (0.21)	ND (0.21)	ND (1.0)	ND (0.21)	ND (2.1)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
trans-1,3-Dichloropropene	ug/l	-	-	ND (0.19)	ND (0.19)	ND (0.93)	ND (0.19)	ND (1.9)	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Ethylbenzene	ug/l	700	-	ND (0.27)	365	ND (1.3)	111	ND (2.7)	ND (0.27)	100	49.9	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	0.28 J
Freon 113	ug/l	-	20000	ND (0.52)	ND (0.52)	ND (2.6)	ND (0.52)	ND (5.2)	ND (0.52)	ND (5.2)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
2-Hexanone	ug/l	-	300	ND (1.7)	ND (1.7)	ND (8.7)	ND (1.7)	ND (17)	ND (1.7)	ND (17)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
Isopropylbenzene	ug/l	700	-	ND (0.23)	12.9	ND (1.2)	10.5	ND (2.3)	ND (0.23)	16.4	1.2	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Methyl Acetate	ug/l	7000	-	ND (1.9)	ND (1.9)	ND (9.4)	ND (1.9)	ND (19)	ND (1.9)	ND (19)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Methylcyclohexane	ug/l	-	-	ND (0.22)	33.3	ND (1.1)	46.5	ND (2.2)	ND (0.22)	10.2 J	2.1 J	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	1.1 J	ND (0.22)
Methyl Tert Butyl Ether	ug/l	70	-	ND (0.24)	**2480**	**1530**	7.2	**9120**	6.2	**1370**	**6690**	20.5	2.9	ND (0.24)	**693**	ND (0.24)	**77**	ND (0.24)	7.5	0.31 J	ND (0.24)	25.7
4-Methyl-2-pentanone(MIBK)	ug/l	-	-	ND (1.0)	16	ND (5.1)	4.1 J	ND (10)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Methylene chloride	ug/l	3	-	ND (0.73)	ND (0.73)	ND (3.6)	ND (0.73)	ND (7.3)	ND (0.73)	ND (7.3)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)
Styrene	ug/l	100	-	ND (0.27)	ND (0.27)	ND (1.4)	ND (0.27)	ND (2.7)	ND (0.27)	ND (2.7)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Tert Butyl Alcohol	ug/l	100	-	ND (2.8)	**151**	**1850**	**101**	**39400**	16.4	**1240**	**1720**	ND (2.8)	23	ND (2.8)	**204**	ND (2.8)	45.8	ND (2.8)	23.1	ND (2.8)	ND (2.8)	35
1,1,2,2-Tetrachloroethane	ug/l	1	-	ND (0.21)	ND (0.21)	ND (1.0)	ND (0.21)	ND (2.1)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Tetrachloroethene	ug/l	1	-	ND (0.40)	ND (0.40)	ND (2.0)	ND (0.40)	ND (4.0)	ND (0.40)	ND (4.0)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
Toluene	ug/l	600	-	ND (0.16)	449	ND (0.81)	37.2	ND (1.6)	ND (0.16)	19.2	8.7	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
1,2,3-Trichlorobenzene	ug/l	-	-	ND (0.23)	ND (0.23)	ND (1.1)	ND (0.23)	ND (2.3)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2,4-Trichlorobenzene	ug/l	9	-	ND (0.21)	ND (0.21)	ND (1.0)	ND (0.21)	ND (2.1)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,1,1-Trichloroethane	ug/l	30	-	0.78 J	ND (0.25)	ND (1.3)	ND (0.25)	ND (2.5)	ND (0.25)	ND (2.5)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,2-Trichloroethane	ug/l	3	-	ND (0.21)	ND (0.21)	ND (1.1)	ND (0.21)	ND (2.1)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Trichloroethene	ug/l	1	-	ND (0.22)	ND (0.22)	ND (1.1)	ND (0.22)	ND (2.2)	**3.2**	ND (2.2)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Trichlorofluoromethane	ug/l	2000	-	ND (0.43)	ND (0.43)	ND (2.1)	ND (0.43)	ND (4.3)	ND (0.43)	ND (4.3)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Vinyl chloride	ug/l	1	-	ND (0.15)	ND (0.15)	ND (0.74)	ND (0.15)	ND (1.5)	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
m,p-Xylene	ug/l	-	-	ND (0.38)	778	ND (1.9)	124	ND (3.8)	ND (0.38)	22.3	8.2	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
o-Xylene	ug/l	-	-	ND (0.17)	341	ND (0.83)	50.3	ND (1.7)	ND (0.17)	11.2	13.2	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Xylene (total)	ug/l	1000	-	ND (0.17)	**1120**	ND (0.83)	174	ND (1.7)	ND (0.17)	33.5	21.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Total TIC, Volatile	ug/l	-	-	0	2840 J	0	1422 J	470 J	0	645 J	210.9 J	0	52 J	5.6 J	6.1 J	0	0	0	0	0	0	0
Total Alkanes	ug/l	-	-	0	613 J	0	522 J	0	0	681 J	165.5 J	0	0	0	0	0	0	0	0	0	0	0
GC/MS Semi-volatiles (SW846																						
2-Chlorophenol	ug/l	40	-	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
4-Chloro-3-methyl phenol	ug/l	-	100	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
2,4-Dichlorophenol	ug/l	20	-	ND (1.8)	7.1	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.7)	ND (1.6)	ND (1.6)
2,4-Dimethylphenol	ug/l	100	-	ND (2.0)	ND (2.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (2.0)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
2,4-Dinitrophenol	ug/l	40	-	ND (7.2)	ND (6.9)	ND (6.9)	ND (6.6)	ND (6.9)	ND (6.9)	ND (6.6)	ND (6.9)	ND (6.9)	ND (6.5)	ND (6.5)	ND (6.9)	ND (6.5)	ND (6.5)	ND (6.5)	ND (6.5)	ND (6.7)	ND (6.5)	ND (6.5)
2-Methylphenol	ug/l	-	50	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
3&4-Methylphenol	ug/l	-	50	ND (1.2)	4.7	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	1.1 J	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
2-Nitrophenol	ug/l	-	-	ND (2.0)	ND (2.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (2.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
4-Nitrophenol	ug/l	-	-	ND (1.0)	ND (0.96)	ND (0.95)	ND (0.93)	ND (0.95)	ND (0.95)	ND (0.93)	ND (0.95)	ND (0.96)	ND (0.91)	ND (0.91)	ND (0.95)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.94)	ND (0.91)	ND (0.91)
Phenol	ug/l	2000	-	ND (0.60)	26.1	ND (0.58)	ND (0.56)	ND (0.58)	ND (0.58)	24.5	7.9	ND (0.58)	ND (0.55)	ND (0.55)	ND (0.58)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.56)	ND (0.55)	ND (0.55)
2,3,4,6-Tetrachlorophenol	ug/l	200	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.4)	ND (1.5)	ND (1.5)	ND (1.4)	ND (1.5)	ND (1.5)	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
2,4,5-Trichlorophenol	ug/l	700	-	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.7)	ND (1.8)	ND (1.8)	ND (1.7)	ND (1.8)	ND (1.8)	ND (1.7)	ND (1.7)	ND (1.8)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.8)	ND (1.7)	ND (1.7)
2,4,6-Trichlorophenol	ug/l	20	-	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.5)	ND (1.5)	ND (1.6)	ND (1.6)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.6)	ND (1.5)	ND (1.5)
Acenaphthene	ug/l	400	-	ND (0.32)	14.2	ND (0.31)	ND (0.30)	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Acenaphthylene	ug/l	-	100	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.20)	ND (0.20)

Table 2
AOC 10: Truck Loading Rack
Hess Corporation - Former Port Reading Complex
750 Cliff Road
Port Reading, New Jersey
2015 Groundwater Analytical Results

Client Sample ID:		NJ Groundwater Criteria (NJAC 7:9C 7/07)	NJ Interim Groundwater Criteria (NJAC 7:9C 11/15)2	TR-1R	TR-2R	TR-3RR	TR-4R	TR-4D	TR-4DD	TR-5R	TR-6	TR-6D	AB-4D	PER-2	PER-2D	PER-3	PER-3D	PER-9	PER-9D	PER-9DD	PER-10	PER-10D
Lab Sample ID:				JC8967-1	JC8967-4	JC8967-6	JC8967-8	JC8967-9	JC8967-10	JC8967-7	JC8967-2	JC8967-3	JC9218-4	JC9071-8	JC9071-9	JC9218-5	JC9218-6	JC9218-1	JC9218-2	JC9218-3	JC9218-7	JC9218-8
Date Sampled:				11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	11/23/2015	11/20/2015	11/20/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015	11/23/2015
Matrix:				Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Acetophenone	ug/l	700	-	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.37)	ND (0.38)	ND (0.39)	ND (0.36)	ND (0.36)	ND (0.38)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.38)	ND (0.36)	ND (0.36)
Anthracene	ug/l	2000	-	ND (0.21)	7.5	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Atrazine	ug/l	3	-	ND (0.46)	ND (0.45)	ND (0.45)	ND (0.43)	ND (0.45)	ND (0.45)	ND (0.43)	ND (0.45)	ND (0.45)	ND (0.42)	ND (0.42)	ND (0.45)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.44)	ND (0.42)	ND (0.42)
Benzaldehyde	ug/l	-	-	ND (0.74)	ND (0.71)	ND (0.71)	ND (0.69)	ND (0.71)	ND (0.71)	ND (0.69)	ND (0.71)	ND (0.71)	ND (0.67)	ND (0.67)	ND (0.71)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.67)	ND (0.69)	ND (0.67)	ND (0.67)
Benzo(a)anthracene	ug/l	0.1	-	-	**5.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/l	-	100	ND (0.34)	1.3	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.31)	ND (0.31)	ND (0.33)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.32)	ND (0.31)	ND (0.31)
4-Bromophenyl phenyl ether	ug/l	-	-	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)
Butyl benzyl phthalate	ug/l	100	-	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.22)
1,1'-Biphenyl	ug/l	400	-	ND (0.30)	11.9	ND (0.29)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)
2-Chloronaphthalene	ug/l	600	-	ND (0.38)	ND (0.36)	ND (0.36)	ND (0.35)	ND (0.36)	ND (0.36)	ND (0.35)	ND (0.36)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)
4-Chloroaniline	ug/l	30	-	ND (0.33)	ND (0.32)	ND (0.32)	ND (0.31)	ND (0.32)	ND (0.32)	ND (0.31)	ND (0.32)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.30)	ND (0.30)
Carbazole	ug/l	-	-	ND (0.18)	6.2	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Caprolactam	ug/l	-	5000	ND (0.45)	ND (0.43)	ND (0.43)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.42)	ND (0.43)	ND (0.43)	10.2	8	0.87 J	3.3	ND (0.41)	16.6	8.9	1.6 J	4.2	ND (0.41)
Chrysene	ug/l	5	-	ND (0.18)	4.2	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
bis(2-Chloroethoxy)methane	ug/l	-	-	ND (0.46)	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.44)	ND (0.44)	ND (0.43)	ND (0.44)	ND (0.45)	ND (0.42)	ND (0.42)	ND (0.44)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.42)	ND (0.42)
bis(2-Chloroethyl)ether	ug/l	7	-	ND (0.48)	ND (0.46)	ND (0.46)	ND (0.44)	ND (0.46)	ND (0.46)	ND (0.44)	ND (0.46)	ND (0.46)	ND (0.43)	ND (0.43)	ND (0.46)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.45)	ND (0.43)	ND (0.43)
bis(2-Chloroisopropyl)ether	ug/l	300	-	ND (0.45)	ND (0.43)	ND (0.43)	ND (0.41)	ND (0.43)	ND (0.43)	ND (0.41)	ND (0.43)	ND (0.43)	ND (0.41)	ND (0.41)	ND (0.43)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.42)	ND (0.41)	ND (0.41)
4-Chlorophenyl phenyl ether	ug/l	-	-	ND (0.42)	ND (0.41)	ND (0.40)	ND (0.39)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.40)	ND (0.41)	ND (0.38)	ND (0.38)	ND (0.40)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.39)	ND (0.38)	ND (0.38)
2,4-Dinitrotoluene	ug/l	-	-	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.34)	ND (0.32)	ND (0.32)	ND (0.34)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.33)	ND (0.32)	ND (0.32)
2,6-Dinitrotoluene	ug/l	-	-	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
3,3'-Dichlorobenzidine	ug/l	30	-	ND (0.62)	ND (0.60)	ND (0.59)	ND (0.57)	ND (0.59)	ND (0.59)	ND (0.57)	ND (0.59)	ND (0.60)	ND (0.56)	ND (0.56)	ND (0.59)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.58)	ND (0.56)	ND (0.56)
1,4-Dioxane	ug/l	-	0.4	ND (0.79)	ND (0.76)	ND (0.75)	ND (0.73)	**1.3**	**0.78 J**	ND (0.73)	ND (0.75)	ND (0.76)	**3.4**	ND (0.72)	ND (0.75)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.74)	ND (0.72)	**4.3**
Dibenzofuran	ug/l	-	-	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)	ND (0.23)
Di-n-butyl phthalate	ug/l	700	-	ND (0.64)	ND (0.62)	ND (0.61)	ND (0.59)	ND (0.61)	ND (0.61)	ND (0.59)	ND (0.61)	ND (0.62)	ND (0.58)	ND (0.58)	ND (0.61)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.60)	ND (0.58)	ND (0.58)
Di-n-octyl phthalate	ug/l	100	-	ND (0.28)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)
Diethyl phthalate	ug/l	6000	-	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)	ND (0.23)
Dimethyl phthalate	ug/l	-	100	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)	ND (0.26)
bis(2-Ethylhexyl)phthalate	ug/l	3	-	ND (0.61)	3	ND (0.58)	1.2 J	ND (0.58)	ND (0.58)	ND (0.57)	ND (0.58)	ND (0.59)	ND (0.55)	2	ND (0.58)	ND (0.55)	ND (0.55)	ND (0.55)	**3.5**	ND (0.57)	ND (0.55)	ND (0.55)
Fluoranthene	ug/l	300	-	ND (0.18)	16.3	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
Fluorene	ug/l	300	-	ND (0.30)	18.1	ND (0.29)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)
Hexachlorobutadiene	ug/l	1	-	ND (0.43)	ND (0.41)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.39)	ND (0.39)	ND (0.41)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.39)
Hexachlorocyclopentadiene	ug/l	40	-	ND (0.53)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.51)	ND (0.51)	ND (0.48)	ND (0.48)	ND (0.51)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.50)	ND (0.48)	ND (0.48)
Hexachloroethane	ug/l	7	-	ND (0.32)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.30)	ND (0.30)	ND (0.29)	ND (0.30)	ND (0.31)	ND (0.29)	ND (0.29)	ND (0.30)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.30)	ND (0.29)	ND (0.29)
Isophorone	ug/l	40	-	ND (0.37)	ND (0.36)	ND (0.36)	ND (0.35)	ND (0.36)	ND (0.36)	ND (0.35)	ND (0.36)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)
2-Methylnaphthalene	ug/l	-	30	ND (0.32)	**55.2**	ND (0.31)	2.6	ND (0.31)	ND (0.31)	ND (0.30)	ND (0.31)	ND (0.31)	ND (0.29)	ND (0.29)	ND (0.31)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.30)	ND (0.29)	ND (0.29)
2-Nitroaniline	ug/l	-	-	ND (0.35)	ND (0.34)	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.32)	ND (0.33)	ND (0.34)	ND (0.32)	ND (0.32)	ND (0.33)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.33)	ND (0.32)	ND (0.32)
3-Nitroaniline	ug/l	-	-	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.26)	ND (0.26)
4-Nitroaniline	ug/l	-	-	ND (0.33)	ND (0.32)	ND (0.32)	ND (0.31)	ND (0.32)	ND (0.32)	ND (0.31)	ND (0.32)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.32)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.31)	ND (0.30)	ND (0.30)
Naphthalene	ug/l	300	-	ND (0.29)	97.7	ND (0.28)	28.7	ND (0.28)	ND (0.28)	2	3	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Nitrobenzene	ug/l	6	-	ND (0.57)	ND (0.55)	ND (0.55)	ND (0.53)	ND (0.55)	ND (0.55)	ND (0.53)	ND (0.55)	ND (0.55)	ND (0.52)	ND (0.52)	ND (0.55)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.54)	ND (0.52)	ND (0.52)
N-Nitroso-di-n-propylamine	ug/l	10	-	ND (0.41)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.38)	ND (0.40)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.39)	ND (0.38)	ND (0.38)
N-Nitrosodiphenylamine	ug/l	10	-	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Phenanthrene	ug/l	-	-	ND (0.20)	41.3	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Pyrene	ug/l	200	-	ND (0.21)	15.8	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)
1,2,4,5-Tetrachlorobenzene	ug/l	-	-	ND (0.49)	ND (0.47)	ND (0.47)	ND (0.45)	ND (0.47)	ND (0.47)	ND (0.45)	ND (0.47)	ND (0.47)	ND (0.44)	ND (0.44)	ND (0.47)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.46)	ND (0.44)	ND (0.44)
GC/MS Semi-volatiles (SW846																						
4,6-Dinitro-o-cresol	ug/l	-	1	ND (0.098)	ND (0.095)	ND (0.094)	ND (0.091)	ND (0.094)	ND (0.094)	ND (0.091)	ND (0.094)	ND (0.095)	ND (0.090) [e]	ND (0.090)	ND (0.094)	ND (0.090) [e]	ND (0.090) [e]	ND (0.090) [e]	ND (0.090) [e]	ND (0.092) [e]	ND (0.090) [e]	ND (0.090)
Pentachlorophenol	ug/l	0.3	-	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Benzo(a)anthracene	ug/l	0.1	-	ND (0.020)	-	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Benzo(a)pyrene	ug/l	0.1	-	ND (0.032)	**3.41**	ND (0.031)	ND (0.030)	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.030)	ND (0.031)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)
Benzo(b)fluoranthene	ug/l	0.2	-	ND (0.023)	**4.47**	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)
Benzo(k)fluoranthene	ug/l	0.5	-	ND (0.021)	**1.63**	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.019)
Dibenzo(a,h)anthracene	ug/l	0.3	-	ND (0.039)	**0.457**	ND (0.037)	ND (0.036)	ND (0.037)	ND (0.037)	ND (0.036)	ND (0.037)	ND (0.038)	ND (0.035)	ND (0.035)	ND (0.037)	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.036)	ND (0.035)	ND (0.035)
Hexachlorobenzene	ug/l	0.02	-	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
Indeno(1,2,3-cd)pyrene	ug/l	0.2	-	ND (0.034)	**1.41**	ND (0.033)	ND (0.032)	ND (0.033)	ND (0.033)	ND (0.032)	ND (0.033)	ND (0.033)	ND (0.031)	ND (0.031)	ND (0.033)	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.032)	ND (0.031)	ND (0.031)
Total TIC, Semi-Volatile	ug/l	-	-	0	1362 J	0	580.1 J	0	0	229.9 J	38.8 J	0	64.5 J	50.7 J	0	0	10 J	0	15.7 J	0	67.2 J	54.5 J
Total Alkanes	ug/l	-	-	0	291 J	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals Analysis																						
Aluminum	ug/l	200	-	**30200** [f]	**741**	**1510**	**4450**	<200	**779**	**215**	**996**	**1010**	**1290**	**632**	<200	<200	<200	**2610**	<200	<200	<200	<200
Antimony	ug/l	6	-	<12 [f]	<6.0	<6.0	<6.0	<6.0	<6.0	**6.1**	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Arsenic	ug/l	3	-	**18.4** [f]	**3.5**	**3.3**	**18.8**	<3.0	<3.0	<3.0	**8.4**	<3.0	**13.5**	<3.0	<3.0	<6.0 [h]	<3.0	**5.6**	<3.0	<3.0	**4.7**	<3.0
Arsenic	ug/l	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/l	6000	-	<400 [f]	<200	<200	<200	256	222	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Beryllium	ug/l	1	-	**2.4** [f]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cadmium	ug/l	4	-	<6.0 [f]	**4.2**	<3.0	**4.6**	**6.7**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Cadmium	ug/l	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/l	-	-	58400 [f]	25000	73800	37900	107000	99700	49100	44400	34500	149000	23000	113000	104000	82400	42400	98600	48700	66200	103000
Chromium	ug/l	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/l	70	-	**73.4** [f]	22.2	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cobalt	ug/l	-	100	<100 [f]	<50	<50	<50	<50	<50	<50	<50	<50	<500 [i]	<50	<50	<50	<50	<50	<50	<50	<50	<50
Copper	ug/l	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 2
AOC 10: Truck Loading Rack
Hess Corporation - Former Port Reading Complex
750 Cliff Road
Port Reading, New Jersey
2015 Groundwater Analytical Results

Client Sample ID:		NJ Groundwater Criteria (NJAC 7:9C 7/07)	NJ Interim Groundwater Criteria (NJAC 7:9C 11/15)2	TR-1R	TR-2R	TR-3RR	TR-4R	TR-4D	TR-4DD	TR-5R	TR-6	TR-6D	AB-4D	PER-2	PER-2D	PER-3	PER-3D	PER-9	PER-9D	PER-9DD	PER-10	PER-10D
Lab Sample ID:				**JC8967-1**	**JC8967-4**	**JC8967-6**	**JC8967-8**	**JC8967-9**	**JC8967-10**	**JC8967-7**	**JC8967-2**	**JC8967-3**	**JC9218-4**	**JC9071-8**	**JC9071-9**	**JC9218-5**	**JC9218-6**	**JC9218-1**	**JC9218-2**	**JC9218-3**	**JC9218-7**	**JC9218-8**
Date Sampled:				**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/19/2015**	**11/23/2015**	**11/20/2015**	**11/20/2015**	**11/23/2015**	**11/23/2015**	**11/23/2015**	**11/23/2015**	**11/23/2015**	**11/23/2015**	**11/23/2015**
Matrix:				**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**	**Ground Water**
Copper	ug/l	1300	-	51.6 [f]	10.2	<10	23.5	<10	<10	<10	<10	<10	<10	27.7	<10	<10	<10	23.7	<10	<10	13.2	<10
Iron	ug/l	300	-	**48800** [f]	**1870**	**2620**	**4610**	176	**3490**	**3280**	**3340**	**487**	**2090**	**2460**	<100	**1010**	131	**5550**	185	**896**	**2040**	123
Lead	ug/l	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/l	5	-	**22.0** [f]	4.3	**5.1**	**22.8**	<3.0	<3.0	<3.0	**5.2**	3.3	<30 [i]	**5.5**	<3.0	<6.0 [h]	<3.0	3.3	<3.0	<3.0	<3.0	<3.0
Magnesium	ug/l	-	-	22700 [f]	<5000	5080	<5000	17400	17000	46400	8010	5770	124000	<5000	22700	185000	130000	13600	38000	11900	15000	176000
Manganese	ug/l	50	-	**742** [f]	**423**	**591**	**147**	**291**	**138**	**1240**	**565**	<15	21.4	**120**	29.4	**253**	**194**	**70.8**	48.5	**63.6**	**98.3**	**656**
Mercury	ug/l	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/l	2	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	ug/l	100	-	40.6 [f]	12	<10	18.1	<10	<10	<10	<10	<10	<100 [i]	<10	<10	<10	<10	<10	<10	<10	<10	15.2
Nickel	ug/l	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/l	-	-	<20000 [f]	51800	<10000	18200	<10000	<10000	<10000	<10000	<10000	120000	<10000	<10000	55200	70100	<10000	12300	<10000	<10000	88800
Selenium	ug/l	40	-	<20 [f]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Silver	ug/l	40	-	<20 [f]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Silver	ug/l	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/l	50000	-	40900 [f]	**315000**	30700	**251000**	**117000**	**57200**	**192000**	23300	20100	**2230000**	29600	**69800**	**1540000**	**1110000**	**198000**	**227000**	**126000**	**160000**	**1320000**
Thallium	ug/l	2	-	<4.0 [f]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20 [i]	<2.0	<2.0	<4.0 [h]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vanadium	ug/l	-	-	121 [f]	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Zinc	ug/l	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/l	2000	-	104 [f]	49.1	<20	289	<20	<20	<20	<20	<20	<20	66.2	<20	<20	<20	<20	<20	42.5	<20	<20
General Chemistry																						
Nitrogen, Ammonia	mg/l	3	-	<0.20	2.9	0.21	1.5	<0.20	<0.20	0.44	0.3	<0.20	**6.1**	0.56	<0.20	0.22	**8.1**	<0.20	0.88	<0.20	0.94	**18.7**

Table 3
AOC 10 - Truck Loading Rack
Hess Corporation - Port Reading Complex (HC-PR)
750 Cliff Road
Port Reading, NJ
2016 Groundwater Sampling Analytical Results

Client Sample ID:		NJ Groundwater Criteria (NJAC7:9C 7/07)	NJ Interim Groundwater Criteria (NJAC7:9C 11/15)	TR-1R	TR-2R	TR-3RR	TR-4R	TR-4D	TR-4DD	TR-5	TR-6	TR-6D	AB-4R	AB-4D	PER-2	PER-2D	PER-3	PER-3D	PER-9	PER-9D	PER-9DD	PER-10	PER-10D
Lab Sample ID:				JC31908-3	JC31908-4	JC31908-10	JC32172-6	JC32172-7	JC32172-8	JC31908-11	JC31908-12	JC31908-13	JC31999-14	JC31999-13	JC31908-5	JC31908-6	JC31908-14	JC31908-15	JC31908-7	JC31908-8	JC31908-9	JC31999-9	JC31999-10
Date Sampled:				11/16/2016	11/16/2016	11/16/2016	11/21/2016	11/21/2016	11/21/2016	11/16/2016	11/16/2016	11/16/2016	11/17/2016	11/17/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/17/2016	11/17/2016
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
GC/MS Volatiles (SW846 8260C)																							
Acetone	ug/l	6000	-	ND (5.0)	ND (5.0)	ND (25)	84	ND (100)	ND (5.0)	ND (50)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)	9.2 J	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	10.3
Benzene	ug/l	1	-	ND (0.14)	**204**	**13.2**	**42.2**	**5.8 J**	ND (0.14)	**4490**	**179**	0.40 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	0.34 J	ND (0.14)
Bromochloromethane	ug/l	-	-	ND (0.46)	ND (0.46)	ND (2.3)	ND (0.46)	ND (9.3)	ND (0.46)	ND (4.6)	ND (4.6)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
Bromodichloromethane	ug/l	1	-	ND (0.55)	ND (0.55)	ND (2.8)	ND (0.55)	ND (11)	ND (0.55)	ND (5.5)	ND (5.5)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
Bromoform	ug/l	4	-	ND (0.34)	ND (0.34)	ND (1.7)	ND (0.34)	ND (6.8)	ND (0.34)	ND (3.4)	ND (3.4)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Bromomethane	ug/l	10	-	ND (0.46)	ND (0.46)	ND (2.3)	ND (0.46)	ND (9.3)	ND (0.46)	ND (4.6)	ND (4.6)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
2-Butanone (MEK)	ug/l	300	-	ND (1.9)	14	ND (9.5)	ND (1.9)	ND (38)	ND (1.9)	ND (19)	ND (19)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Carbon disulfide	ug/l	700	-	ND (0.33)	1.6 J	ND (1.7)	ND (0.33)	ND (6.6)	ND (0.33)	ND (3.3)	ND (3.3)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Carbon tetrachloride	ug/l	1	-	ND (0.54)	ND (0.54)	ND (2.7)	ND (0.54)	ND (11)	ND (0.54)	ND (5.4)	ND (5.4)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
Chlorobenzene	ug/l	50	-	ND (0.17)	ND (0.17)	ND (0.87)	0.27 J	ND (3.5)	ND (0.17)	ND (1.7)	ND (1.7)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloroethane	ug/l	-	5	ND (0.44)	ND (0.44)	ND (2.2)	ND (0.44)	ND (8.9)	ND (0.44)	ND (4.4)	ND (4.4)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)
Chloroform	ug/l	70	-	ND (0.23)	ND (0.23)	ND (1.1)	ND (0.23)	ND (4.5)	ND (0.23)	ND (2.3)	ND (2.3)	0.38 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Chloromethane	ug/l	-	-	ND (0.96)	ND (0.96)	ND (4.8)	ND (0.96)	ND (19)	ND (0.96)	ND (9.6)	ND (9.6)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)	ND (0.96)
Cyclohexane	ug/l	-	-	ND (0.73)	76.3	3.6 J	95	ND (15)	ND (0.73)	48.8 J	ND (7.3)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	1.2 J
1,2-Dibromo-3-chloropropane	ug/l	0.02	-	ND (0.69)	ND (0.69)	ND (3.4)	ND (0.69)	ND (14)	ND (0.69)	ND (6.9)	ND (6.9)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
Dibromochloromethane	ug/l	1	-	ND (0.23)	ND (0.23)	ND (1.1)	ND (0.23)	ND (4.5)	ND (0.23)	ND (2.3)	ND (2.3)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2-Dibromoethane	ug/l	0.03	-	ND (0.22)	ND (0.22)	ND (1.1)	ND (0.22)	ND (4.4)	ND (0.22)	ND (2.2)	ND (2.2)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,2-Dichlorobenzene	ug/l	600	-	ND (0.23)	ND (0.23)	ND (1.2)	0.55 J	ND (4.7)	0.24 J	ND (2.3)	ND (2.3)	0.30 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,3-Dichlorobenzene	ug/l	600	-	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (3.9)	ND (0.19)	ND (1.9)	ND (1.9)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
1,4-Dichlorobenzene	ug/l	75	-	ND (0.21)	ND (0.21)	ND (1.1)	ND (0.21)	ND (4.3)	ND (0.21)	ND (2.1)	ND (2.1)	0.23 J	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Dichlorodifluoromethane	ug/l	1000	-	ND (0.70)	ND (0.70)	ND (3.5)	ND (0.70)	ND (14)	ND (0.70)	ND (7.0)	ND (7.0)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)
1,1-Dichloroethane	ug/l	50	-	0.30 J	ND (0.21)	ND (1.0)	ND (0.21)	ND (4.1)	0.69 J	ND (2.1)	ND (2.1)	0.94 J	ND (0.21)	0.71 J	ND (0.21)	0.39 J	ND (0.21)	ND (0.21)	ND (0.21)	0.29 J	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloroethane	ug/l	2	-	ND (0.39)	**5.8**	ND (2.0)	ND (0.39)	ND (7.9)	ND (0.39)	ND (3.9)	ND (3.9)	0.54 J	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
1,1-Dichloroethene	ug/l	1	-	**2.1**	ND (0.20)	ND (1.0)	ND (0.20)	ND (4.1)	**2.7**	ND (2.0)	ND (2.0)	**2.8**	ND (0.20)	ND (0.20)	0.50 J	0.26 J	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
cis-1,2-Dichloroethene	ug/l	70	-	ND (0.31)	ND (0.31)	ND (1.5)	ND (0.31)	ND (6.2)	5.1	ND (3.1)	ND (3.1)	3.2	ND (0.31)	0.38 J	ND (0.31)	0.46 J	ND (0.31)	ND (0.31)	ND (0.31)	0.56 J	ND (0.31)	ND (0.31)	ND (0.31)
trans-1,2-Dichloroethene	ug/l	100	-	ND (0.36)	ND (0.36)	ND (1.8)	ND (0.36)	ND (7.1)	ND (0.36)	ND (3.6)	ND (3.6)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,2-Dichloropropane	ug/l	1	-	ND (0.33)	ND (0.33)	ND (1.6)	ND (0.33)	ND (6.5)	ND (0.33)	ND (3.3)	ND (3.3)	**1.4**	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
cis-1,3-Dichloropropene	ug/l	-	-	ND (0.19)	ND (0.19)	ND (0.93)	ND (0.19)	ND (3.7)	ND (0.19)	ND (1.9)	ND (1.9)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
trans-1,3-Dichloropropene	ug/l	-	-	ND (0.26)	ND (0.26)	ND (1.3)	ND (0.26)	ND (5.2)	ND (0.26)	ND (2.6)	ND (2.6)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Ethylbenzene	ug/l	700	-	ND (0.20)	97.6	2.8 J	303	ND (3.9)	ND (0.20)	262	39.2	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Freon 113	ug/l	-	20000	ND (1.2)	ND (1.2)	ND (5.8)	ND (1.2)	ND (23)	ND (1.2)	ND (12)	ND (12)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
2-Hexanone	ug/l	-	300	ND (1.5)	ND (1.5)	ND (7.6)	ND (1.5)	ND (30)	ND (1.5)	ND (15)	ND (15)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
Isopropylbenzene	ug/l	700	-	ND (0.16)	5.2	ND (0.79)	34.4	ND (3.1)	ND (0.16)	44.1	ND (0.16)	ND (0.16)	ND (0.16)	0.32 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl Acetate	ug/l	7000	-	ND (1.5)	ND (1.5)	ND (7.7)	ND (1.5)	ND (31)	ND (1.5)	ND (15)	ND (15)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
Methylcyclohexane	ug/l	-	-	ND (0.78)	82.3	ND (3.9)	72	ND (16)	ND (0.78)	23.7 J	ND (7.8)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	1.5 J
Methyl Tert Butyl Ether	ug/l	70	-	ND (0.34)	**487**	**765**	9.3	**6010**	4.9	**1200**	**1270**	11.1	4.2	4.4	17.5	**880**	ND (0.34)	**110**	ND (0.34)	30.8	8.9	6.5	ND (0.34)
4-Methyl-2-pentanone(MIBK)	ug/l	-	-	ND (1.2)	7.8	ND (6.0)	2.1 J	ND (24)	ND (1.2)	ND (12)	ND (12)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Methylene chloride	ug/l	3	-	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (20)	ND (1.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	ug/l	100	-	ND (0.27)	ND (0.27)	ND (1.4)	ND (0.27)	ND (5.4)	ND (0.27)	ND (2.7)	ND (2.7)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Tert Butyl Alcohol	ug/l	100	-	ND (3.0)	**263**	**2820**	ND (3.0)	**64700**	16.7	**3850**	**575**	25.8	34.9	39	19.1	**720**	ND (3.0)	**141**	ND (3.0)	**324**	50.1	22.9	4.5 J
1,1,2,2-Tetrachloroethane	ug/l	1	-	ND (0.39)	ND (0.39)	ND (2.0)	ND (0.39)	ND (7.9)	ND (0.39)	ND (3.9)	ND (3.9)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
Tetrachloroethene	ug/l	1	-	ND (0.23)	ND (0.23)	ND (1.2)	ND (0.23)	ND (4.7)	ND (0.23)	ND (2.3)	ND (2.3)	**3.8**	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Toluene	ug/l	600	-	ND (0.23)	71.5	34.8	71.4	ND (4.5)	ND (0.23)	106	8.7 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,2,3-Trichlorobenzene	ug/l	-	-	ND (0.20)	ND (0.20)	ND (1.0)	ND (0.20)	ND (4.0)	ND (0.20)	ND (2.0)	ND (2.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,2,4-Trichlorobenzene	ug/l	9	-	ND (0.25)	ND (0.25)	ND (1.2)	ND (0.25)	ND (4.9)	ND (0.25)	ND (2.5)	ND (2.5)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,1-Trichloroethane	ug/l	30	-	0.65 J	ND (0.22)	ND (1.1)	ND (0.22)	ND (4.3)	ND (0.22)	ND (2.2)	ND (2.2)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,1,2-Trichloroethane	ug/l	3	-	ND (0.28)	ND (0.28)	ND (1.4)	ND (0.28)	ND (5.5)	ND (0.28)	ND (2.8)	ND (2.8)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Trichloroethene	ug/l	1	-	ND (0.26)	ND (0.26)	ND (1.3)	ND (0.26)	ND (5.1)	**2.9**	ND (2.6)	ND (2.6)	**1.8**	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Trichlorofluoromethane	ug/l	2000	-	ND (0.58)	ND (0.58)	ND (2.9)	ND (0.58)	ND (12)	ND (0.58)	ND (5.8)	ND (5.8)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
Vinyl chloride	ug/l	1	-	ND (0.33)	ND (0.33)	ND (1.6)	ND (0.33)	ND (6.5)	ND (0.33)	ND (3.3)	ND (3.3)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
m,p-Xylene	ug/l	-	-	ND (0.42)	243	68.1	377	ND (8.5)	ND (0.42)	184	49.1	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
o-Xylene	ug/l	-	-	ND (0.21)	80.4	46	60.9	ND (4.1)	ND (0.21)	37.8	5.7 J	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Xylene (total)	ug/l	1000	-	ND (0.21)	324	114	438	ND (4.1)	ND (0.21)	222	54.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
GC/MS Volatile TIC																							
Total TIC, Volatile	ug/l	-	-	0	3310 J	40 J	3820 J	0	0	2152 J	0	0	110 J	0	0	0	0	0	0	29 J	0	0	6.5 J
Total Alkanes	ug/l	-	-	0	2220 J	73 J	1230 J	0	0	1639 J	65 J	0	0	0	0	0	0	0	0	0	0	0	0
GC/MS Semi-volatiles (SW846 8270D)																							
2-Chlorophenol	ug/l	40	-	ND (0.82)	ND (0.82)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.87)	ND (0.83)	ND (0.83)	ND (0.83)	ND (0.82)	ND (0.89)	ND (0.83)	ND (0.84)	ND (0.84)	ND (0.83)	ND (0.82)	ND (0.83)	ND (0.83)
4-Chloro-3-methyl phenol	ug/l	-	100	ND (0.89)	ND (0.89)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.95)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.89)	ND (0.97)	ND (0.90)	ND (0.91)	ND (0.91)	ND (0.90)	ND (0.89)	ND (0.90)	ND (0.90)
2,4-Dichlorophenol	ug/l	20	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
2,4-Dimethylphenol	ug/l	100	-	ND (2.4)	2.8 J	ND (2.5)	4.6 J	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.6)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.4)	ND (2.7)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.4)	ND (2.5)	ND (2.5)
2,4-Dinitrophenol	ug/l	40	-	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.7)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
2-Methylphenol	ug/l	-	50	ND (0.89)	ND (0.89)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.94)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.89)	ND (0.97)	ND (0.90)	ND (0.91)	ND (0.91)	ND (0.90)	ND (0.89)	ND (0.90)	ND (0.90)
3&4-Methylphenol	ug/l	-	50	ND (0.88)	ND (0.88)	ND (0.89)	ND (0.89)	ND (0.89)	ND (0.89)	ND (0.89)	ND (0.94)	ND (0.89)	ND (0.89)	ND (0.89)	ND (0.88)	ND (0.96)	ND (0.89)	ND (0.90)	ND (0.90)	ND (0.89)	ND (0.88)	ND (0.89)	2.5
2-Nitrophenol	ug/l	-	-	ND (0.96)	ND (0.96)	ND (0.97)	ND (0.97)	ND (0.97)	ND (0.97)	ND (0.97)	ND (1.0)	ND (0.97)	ND (0.97)	ND (0.97)	ND (0.96)	ND (1.0)	ND (0.97)	ND (0.98)	ND (0.98)	ND (0.97)	ND (0.96)	ND (0.97)	ND (0.97)
4-Nitrophenol	ug/l	-	-	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.3)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Phenol	ug/l	2000	-	ND (0.39)	8.1	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	11.4	3.1	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.43)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.40)	ND (0.40)
2,3,4,6-Tetrachlorophenol	ug/l	200	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.6)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.6)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
2,4,5-Trichlorophenol	ug/l	700	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
2,4,6-Trichlorophenol	ug/l	20	-	ND (0.92)	ND (0.92)	ND (0.93)	ND (0.93)	ND (0.93)	ND (0.93)	ND (0.93)	ND (0.98)	ND (0.93)	ND (0.93)	ND (0.93)	ND (0.92)	ND (1.0)	ND (0.93)	ND (0.94)	ND (0.94)	ND (0.93)	ND (0.92)	ND (0.93)	1.2 J
Acenaphthene	ug/l	400	-	ND (0.19)	6.5	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	0.53 J	ND (0.20)	ND (0.19)	2.3	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Acenaphthylene	ug/l	-	100	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acetophenone	ug/l	700	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Anthracene	ug/l	2000	-	ND (0.21)	1.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Atrazine	ug/l	3	-	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.48)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.49)	ND (0.45)	ND (0.46)	ND (0.46)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
Benzaldehyde	ug/l	-	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.31)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.31)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Benzo(g,h,i)perylene	ug/l	-	100	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.37)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
4-Bromophenyl phenyl ether	ug/l	-	-	ND (0.40)	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.43)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.40)	ND (0.44)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.41)
Butyl benzyl phthalate	ug/l	100	-	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.49)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.50)	ND (0.46)	ND (0.47)	ND (0.47)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
1,1'-Biphenyl	ug/l	400	-	ND (0.21)	2.7	ND (0.21)	0.93 J	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Chloronaphthalene	ug/l	600	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
4-Chloroaniline	ug/l	30	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.36)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.37)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)

Table 3
AOC 10 - Truck Loading Rack
Hess Corporation - Port Reading Complex (HC-PR)
750 Cliff Road
Port Reading, NJ
2016 Groundwater Sampling Analytical Results

Client Sample ID:		NJ Groundwater Criteria (NJAC7:9C 7/07)	NJ Interim Groundwater Criteria (NJAC7:9C 11/15)	TR-1R	TR-2R	TR-3RR	TR-4R	TR-4D	TR-4DD	TR-5	TR-6	TR-6D	AB-4R	AB-4D	PER-2	PER-2D	PER-3	PER-3D	PER-9	PER-9D	PER-9DD	PER-10	PER-10D
Lab Sample ID:				JC31908-3	JC31908-4	JC31908-10	JC32172-6	JC32172-7	JC32172-8	JC31908-11	JC31908-12	JC31908-13	JC31999-14	JC31999-13	JC31908-5	JC31908-6	JC31908-14	JC31908-15	JC31908-7	JC31908-8	JC31908-9	JC31999-9	JC31999-10
Date Sampled:				11/16/2016	11/16/2016	11/16/2016	11/21/2016	11/21/2016	11/21/2016	11/16/2016	11/16/2016	11/16/2016	11/17/2016	11/17/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/16/2016	11/17/2016	11/17/2016
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Carbazole	ug/l	-	-	ND (0.23)	0.72 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	0.51 J	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Caprolactam	ug/l	-	5000	ND (0.65)	ND (0.65)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.69)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.65)	ND (0.71)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.66)	ND (0.65)	ND (0.66)	ND (0.66)
Chrysene	ug/l	5	-	ND (0.18)	0.47 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
bis(2-Chloroethoxy)methane	ug/l	-	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
bis(2-Chloroethyl)ether	ug/l	7	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
bis(2-Chloroisopropyl)ether	ug/l	300	-	ND (0.40)	ND (0.40)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.43)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.40)	ND (0.44)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.40)	ND (0.41)	ND (0.41)
4-Chlorophenyl phenyl ether	ug/l	-	-	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.40)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
2,4-Dinitrotoluene	ug/l	-	-	ND (0.55)	ND (0.55)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.59)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.55)	ND (0.60)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.55)	ND (0.56)	ND (0.56)
2,6-Dinitrotoluene	ug/l	-	-	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.51)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.52)	ND (0.48)	ND (0.49)	ND (0.49)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)
3,3'-Dichlorobenzidine	ug/l	30	-	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.54)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.55)	ND (0.51)	ND (0.52)	ND (0.52)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
Dibenzofuran	ug/l	-	-	ND (0.22)	2.5 J	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	0.43 J	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Di-n-butyl phthalate	ug/l	700	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Di-n-octyl phthalate	ug/l	100	-	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.24)
Diethyl phthalate	ug/l	6000	-	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Dimethyl phthalate	ug/l	-	100	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
bis(2-Ethylhexyl)phthalate	ug/l	3	-	ND (1.7)	ND (1.7)	ND (1.7)	**4**	**4.6**	**30.3**	ND (1.7)	ND (1.8)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	2.0 J	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
Fluoranthene	ug/l	300	-	ND (0.17)	2.6	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Fluorene	ug/l	300	-	ND (0.17)	6.6	ND (0.17)	0.44 J	ND (0.17)	ND (0.17)	0.46 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Hexachlorocyclopentadiene	ug/l	40	-	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (3.0)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (3.0)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)	ND (2.8)
Hexachloroethane	ug/l	7	-	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.41)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.42)	ND (0.39)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
Isophorone	ug/l	40	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
2-Methylnaphthalene	ug/l	-	30	ND (0.21)	20	ND (0.21)	**111**	ND (0.21)	ND (0.21)	3	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Nitroaniline	ug/l	-	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.30)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
3-Nitroaniline	ug/l	-	-	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.41)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.42)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)
4-Nitroaniline	ug/l	-	-	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.47)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.48)	ND (0.44)	ND (0.45)	ND (0.45)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)
Naphthalene	ug/l	300	-	ND (0.23)	28.7	1.2	214	ND (0.23)	ND (0.23)	30.3	3.7	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.23)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Nitrobenzene	ug/l	6	-	ND (0.64)	ND (0.64)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.68)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.64)	ND (0.70)	ND (0.65)	ND (0.66)	ND (0.66)	ND (0.64)	ND (0.65)	ND (0.64)	ND (0.65)
N-Nitroso-di-n-propylamine	ug/l	10	-	ND (0.48)	ND (0.48)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.51)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.48)	ND (0.52)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.48)	ND (0.49)	ND (0.49)
N-Nitrosodiphenylamine	ug/l	10	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Phenanthrene	ug/l	-	-	ND (0.18)	5.6	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	0.83 J	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Pyrene	ug/l	200	-	ND (0.22)	2.8	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,2,4,5-Tetrachlorobenzene	ug/l	-	-	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.40)	ND (0.37)	ND (0.38)	ND (0.38)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
GC/MS Semi-volatiles (SW846 8270D BY SIM)																							
4,6-Dinitro-o-cresol	ug/l	-	1	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Pentachlorophenol	ug/l	0.3	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Benzo(a)anthracene	ug/l	0.1	-	ND (0.023)	**1.1**	ND (0.023)	ND (0.023)	ND (0.023)	**0.202**	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)
Benzo(a)pyrene	ug/l	0.1	-	ND (0.033)	**0.282**	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.033)	ND (0.036)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.033)	ND (0.034)	ND (0.034)
Benzo(b)fluoranthene	ug/l	0.2	-	ND (0.043)	**0.36**	ND (0.044)	ND (0.044)	ND (0.044)	0.114	ND (0.044)	ND (0.046)	ND (0.044)	ND (0.044)	ND (0.044)	ND (0.043)	ND (0.047)	ND (0.044)	ND (0.044)	ND (0.044)	ND (0.044)	ND (0.043)	ND (0.044)	ND (0.044)
Benzo(k)fluoranthene	ug/l	0.5	-	ND (0.033)	0.189	ND (0.033)	ND (0.033) [a]	ND (0.033) [a]	ND (0.033) [a]	ND (0.033)	ND (0.035)	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.036)	ND (0.033)	ND (0.034)	ND (0.034)	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.033)
Dibenzo(a,h)anthracene	ug/l	0.3	-	ND (0.036)	ND (0.036)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.039)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.036)	ND (0.039)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.036)	ND (0.037)	ND (0.037)
Hexachlorobenzene	ug/l	0.02	-	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	ug/l	1	-	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)
Indeno(1,2,3-cd)pyrene	ug/l	0.2	-	ND (0.038)	0.121	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.040)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.041)	ND (0.038)	ND (0.039)	ND (0.039)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
1,4-Dioxane	ug/l	-	0.4	0.387	ND (0.049)	ND (0.049)	ND (0.049)	**1.49**	**0.657**	ND (0.049)	ND (0.052)	**0.941**	ND (0.049)	**3.91**	ND (0.049)	**0.746**	ND (0.049)	**0.523**	ND (0.050)	**0.519**	ND (0.049)	**3.79**	ND (0.049)
GC/MS Semi-volatile TIC																							
Total TIC, Semi-Volatile	ug/l	-	-	0	1213 J	39.9 J	860.2 J	105.5 J	39.9 J	629.7 J	26.9 J	12 J	29.3 J	54.7 J	30.8 J	0	8.1 J	35 J	9 J	34 J	0	307.4 J	17.3 J
Total Alkanes	ug/l	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals Analysis																							
Aluminum	ug/l	200	-	**423**	**371**	**1090**	**304**	**210**	**1030**	**2640**	**664**	**476**	**511**	**746**	**378**	<200	<200	<200	**1920**	<200	<200	<200	**559**
Antimony	ug/l	6	-	<6.0	**12.2**	<6.0	<6.0	<6.0	<6.0	**7.4**	**8.8**	<6.0	**13.1**	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Arsenic	ug/l	3	-	<3.0	**7.1**	**3.8**	**14.1**	<3.0	**3.7**	**12.9**	**11.7**	<3.0	**12.6**	**11.1**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3	**5.9**
Barium	ug/l	6000	-	<200	<200	<200	<200	238	<200	371	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	645	<200	
Beryllium	ug/l	1	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cadmium	ug/l	4	-	<3.0	<3.0	<3.0	<3.0	3	**4.4**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Calcium	ug/l	-	-	56500	8930	38100	11400	104000	86000	88600	25400	88100	148000	140000	29300	111000	71900	62600	<5000	124000	83800	195000	77600
Chromium	ug/l	70	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cobalt	ug/l	-	100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250 [d]	<50	<50	<50	<50	<50	<50	<50	<50	<50
Copper	ug/l	1300	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	67.6	<10	<10	<10	33.3	<10	<10	<10	31.7
Iron	ug/l	300	-	**689**	**414**	**1340**	**771**	108	**3930**	**6220**	**1440**	**354**	**1440**	**1160**	**800**	<100	**508**	285	**3320**	<100	**61300**	<100	**4030**
Lead	ug/l	5	-	<3.0	<3.0	4	<3.0	<3.0	**5.2**	**7.6**	<3.0	<3.0	<3.0	<15 [d]	**5.5**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Magnesium	ug/l	-	-	14400	<5000	<5000	<5000	17700	14400	33600	<5000	22600	120000	204000	<5000	21000	134000	141000	<5000	47900	24300	98000	23400
Manganese	ug/l	50	-	**51.2**	**94.2**	**755**	22	**582**	**148**	**2250**	**469**	<15	**85.8**	<15	42.5	**59.7**	**162**	**221**	**70.5**	**89.9**	**1490**	**171**	**235**
Mercury	ug/l	2	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.30 [b]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	ug/l	100	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50 [d]	23.9	<10	<10	<10	<10	<10	<10	19.4	<10
Potassium	ug/l	-	-	<10000	17100	<10000	12500	<10000	<10000	<10000	<10000	<10000	204000	165000	<10000	<10000	39600	68600	<10000	15000	<10000	97900	<10000
Selenium	ug/l	40	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50 [c]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Silver	ug/l	40	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sodium	ug/l	50000	-	42400	**82700**	18700	**202000**	**120000**	**54900**	**354000**	11600	**59100**	**1270000**	**3230000**	35200	**57200**	**1040000**	**1090000**	41300	**269000**	**391000**	**1170000**	**162000**
Thallium	ug/l	2	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10 [c]	<10 [d]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vanadium	ug/l	-	-	<50	57.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Zinc	ug/l	2000	-	<20	27.5	20.8	<20	<20	79.6	20.8	<20	<20	32.1	<20	238	<20	<20	<20	<20	<20	<20	<20	<20
General Chemistry																							
Nitrogen, Ammonia	mg/l	3	-	<0.20	1.2	<0.20	1.2	0.34	<0.20	1.3	<0.20	<0.20	**9.5**	**12.4**	0.39	<0.20	0.57	**15.6**	<0.20	**3.5**	0.41	**31**	2.5

[a] This compound in BS is outside in house QC limits bias high.
[b] Elevated sample detection limit due to difficult sample matrix.
[c] Elevated detection limit due to dilution required for high interfering element.
[d] Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis).

Exceeds GWQS
Exceeds Interim GWQS